

WITH THE FARMERS

By Prof. W. F. MASSEY

(Letters addressed to Professor Massey must have stamp inclosed for answer.)



W. F. Massey.

thing needed, only that instead of a spray, you need a plain open nozzle to shoot the stream back into the bucket viciously till the churning is complete.

Sundry Queries.
"I live in Richmond, but have a farm in the country, and sow every year about ten acres in black peas to make hay for several milch cows. The manure they make does not cover much ground, and I wish to return to the soil in commercial fertilizers what the peas take off. Would it not do to sow Thomas phosphate, mixing with it 150 pounds of muriate of potash in a ton? In this way the land would get a quantity of needed lime, if drilled in with the peas. What do you think of the 14 per cent goods made here as a complete fertilizer for peas? You said in The Times-Dispatch some time ago that cantaloupes, squash or cucumbers will not mix or cross. Now one of our leading seedsmen, in his 1914 catalogue, cautions his customers not to plant cantaloupes near cucumbers or squashes. I remember, once having some cantaloupes and pumpkins in the same garden, and the pumpkins, like made the cantaloupes utterly tasteless. Will not squashes do the same?"

I would not use the Thomas phosphate on the land because of the lime, for contrary to other legumes, the peas do not like direct application of lime. It is all right to lime the land after growing the peas, but use acid phosphate and potash for the peas. They do not mind acidity in the soil as other legumes do. I would use 300 pounds of acid phosphate and twenty-five pounds of muriate of potash an acre for the peas. I do not know of a 14 per cent goods you mention, and hence cannot give an opinion. Now, as to the cucumbers, cantaloupes, etc., crossing, the most careful experiments have shown that while all species of squashes and pumpkins will cross freely, the cantaloupes and cucumbers and squashes will not cross. In my garden I plant rows of cantaloupes and then cantaloupes, cucumbers and then squashes, and I have never seen any signs of crossing. The cantaloupes are sold to be the cucumbers and squashes, and I saw, seed from the cantaloupes and have never had any to make cucumbers or squashes, but always good cantaloupes. The pumpkins did not make any cantaloupes tasteless, but it was probably the season or poor seed. You can try to cross cucumbers and cantaloupes artificially, and you cannot do it. Different varieties of cantaloupes will cross, of course, and so will varieties of watermelons, but you cannot cross a watermelon or a cantaloupe for on a pumpkin or squash. Of course, I know that there has long been an opinion that all cucumbers and watermelons will cross, but it is an error that the seedsmen keep up in their catalogues.

Breaking An Old Pasture.
Sussex County, N. C. is my second

year on the farm, and as my neighbors do not use lime nor sow clover, I cannot get any information from them. I have an old pasture of fifteen acres, which has not been plowed for more than fifty years. I cleared it of all wild growth, and now am plowing under broadleaved grass a foot high. How much lime and what kind should I use on this land, which I wish to put in peanuts this spring? Will burned lime make it better in piles on top of the ground, or must it be covered with soil? Will it be best to disk the lime in or harrow it in after disking the plowed soil?

"Will the lime burn up the fertilizer if used this year? I have been told that if I lime my land, I should not use fertilizer the same year. Will it pay to sow clover in peanuts when liming them? I rather think that so much will be covered up at digging time, that it would hardly pay? Will peanuts pay if planted after clover? One of my cows has a hard lump on her leg. Is there anything I can do for it? What will clean a horse of worms?"

Disk the plowed sod and then spread the lime and harrow it in well. Get freshly burned lime, lime plowed soil, let it stand to slake in the weather or apply water enough to cause it to fall to powder. I have always used water, piling the lime convenient to water. Then, of the slaked lime, use twenty-five bushels an acre. The liming will not interfere seriously with the fertilizer used on the peanuts. But how peanuts will thrive on an old sod, I do not know. But pay no attention to the old sod, but pay attention to the soil after liming. It would be wrong to mix lime with manure or a fertilizer containing organic nitrogen, but after the lime is in the soil, the only effect would be that it might to some extent revert the phosphoric acid. But, as this is the usual result in the use of acid phosphate when there is any lime in the soil, it will do no special harm, and any ammonia set free will be absorbed by the soil. I would not sow clover among peanuts, as it would be pretty well destroyed in digging, but you can sow rye as a winter cover after the peanuts are off the land, and can turn this under in the spring for other crops. Clover will not make peapods in peanuts if you give the crop plenty of potash. Clover will draw very strongly on the potash content in the soil, and it is a deficiency of potash and phosphoric acid that makes peapods. Liming will release some insoluble potash in the soil, but most of the good peanut soils have very little of the potash naturally, and need plenty of it in a fertilizer. Where the land has not been limed, it is well to use Thomas phosphate as a carrier of phosphorus, but after liming, I would use the more readily available acid phosphate, and this will carry about 20 per cent of potash, which also releases potash. Use on the peanuts 500 pounds of acid phosphate of the 16 per cent grade, fifty pounds of nitrate of soda, and fifty pounds of muriate of potash, all well mixed, per acre. Rub the cow's udder frequently, and bathe for twenty minutes with warm water, and then rub an ointment made by dissolving two tablespoonfuls of gum camphor in a teaspoonful of melted lard, with a fluid ounce of belladonna.

Sweet Potatoes In New Land.
"Will freshly cleared, new sandy land grow good sweet potatoes? If so, what is the best fertilizer to use on them? Land of that character should be fine for sweet potatoes. But do not, as you propose, use any cottonseed meal or kaint on them. Kaint will make poor quality of sweet potatoes, and you do not need the cottonseed meal on that kind of land. Give the following mixture per acre: acid phosphate, 500 pounds; nitrate of soda, fifty pounds; for an early start, high-grade sulphate of potash, thirty pounds. All well mixed, and applied in the furrows and headed on.

FERTILIZER FACTS No. 11

Feed Your Crops and They Will Feed You

It costs as much to cultivate an acre of cotton that produces 300 lbs. of lint as one that produces 1000 lbs.

It has been demonstrated, beyond the shadow of a doubt that it pays to use commercial fertilizer liberally on farm crops.

Information gathered by the United States Department of Agriculture, from 1495 cotton planters, shows that the farmers who spent less than \$1.00 per acre for fertilizer, made a profit of \$4.62 per acre. Those who spent \$4.00 per acre made an average profit of \$7.96, and those who spent \$6.00 per acre made an average profit of \$12.51 per acre. This was over and above what the land produced without fertilizer, and after deducting all expenses.

It will be observed in the latter instance that the additional \$2.00 spent for fertilizer made a net profit of \$4.55, or over one hundred per cent. This without any additional expense.

IT COSTS JUST AS MUCH TO CULTIVATE AN ACRE OF COTTON WHICH PRODUCES 300 POUNDS OF LINT COTTON AS ONE THAT PRODUCES 1,000 POUNDS.

Rent, taxes and interest are the same in both cases. These facts are equally true with corn, oats, potatoes and other field or garden crops.

Farming is a business. The BUSINESS FARMER will figure these things out for himself and profit by them.

It is the object of these bulletins to bring to the attention of the thinking farmers of the South certain facts which will enable them to use commercial fertilizer with more profit.

The fertilizer manufacturers recognize the fact that the more profit the farmer makes from the fertilizer he uses, the better customer he will become.

For this reason they are doing everything in their power to assist him by advising him how to use fertilizer, so as to bring the greatest returns from the money invested. Also by supplying him with the very best fertilizer it is possible to make; compounded especially to suit the conditions of his soil and crops. In other words, they are making an earnest effort to co-operate with the farmer and assist him in every possible way.

We have had experienced and competent parties to prepare a number of bulletins on cotton and corn culture which we will be glad to send you without charge, postpaid. Drop us a post card saying "Send me your bulletins," and give your name and post office.

SOIL IMPROVEMENT COMMITTEE
Southern Fertilizer Association
Atlanta, Ga., U. S. A.

CAVALRY POLOISTS DEFEAT FISHERMEN

Camden, S. C., March 16.—The polo team of the Eleventh Cavalry, United States Army, today defeated the Long Island Fish Catchers 19 to 6 in the first match of the annual polo tournament here for possession of the Cleveland cup. Lieutenant Eben Swift, of the soldiers' team, was injured during the first period, and forced to retire, Lieutenant George H. Timmons taking his place.

Play for the Southern circuit will commence Wednesday when the Camden team will meet the cavalry team. The tournament will continue two weeks.

Philadelphia, Pa., March 16.—Burying the Philadelphia Nationals under an avalanche of extra base hits, coupled with sensational fielding, the Baltimore Internationals won their first exhibition game here today, 7 to 2. Claude Derrick, former New York American infielder, led at bat with two two-base hits in four times up. Score: Baltimore.....7 1 0 Philadelphia.....2 1 0

Caporal, Morrisette, Jarnan, Egan and Liddige; Marshall, Jacobs, Killiter and Burns.

QUIMET BEGINS GOLF PRACTICE
Boston, Mass., March 16.—Francis Quimet, the national open golf champion, took advantage today of the disappearance of the snow from the grounds of the Woodland Golf Club to begin practice for his tour of the English Links. Many of his drives carried nearly 300 yards, and were straight for the flag. Those who watched him said he was driving farther and straighter than when he defeated Vardon and Ray, the English professionals, in the open championship last fall. Quimet will sail for England March 21.

ATHLETICS TAKE GAME FROM CUBS
Jacksonville, Fla., March 16.—The Philadelphia Athletics today won from the Chicago National League team, 6 to 3. The American League and world champions scored three runs in the eighth inning on a pass to Barry, two-base hit, by Collins and Lapp, and a single by Melvin. The Cubs, who had played four games with each other in Florida, each winning two, today's score: Athletics.....6 1 0 Chicago.....3 1 0

Batteries: Wychoff, Pennock and Lapp; Laverder, Zabel and Brennan, Harrgrave.

UNION UNIVERSITY STARTS PRACTICE
A large number of men responded to the first call for baseball material on Hovey Field, Virginia Union University, yesterday afternoon. Because of the weather, the men were fully two weeks later than in previous seasons in getting out into the open, owing to these conditions and the hard schedule which faces the team, Manager Buckner and Captain Nash are none too hopeful. To a fair representation of last year's regulars who are back may be added a larger aggregation of new men than usual. Yesterday's practice was in the nature of a light workout, no attempt being made to get a line on the players.

The baseball management expects to secure the services of Bobbie Winston as coach for the next few weeks. Winston was on the grounds yesterday, and conferred with the manager. A strong effort is being made by the athletic association and the hard schedule which faces the team, Manager Buckner and Captain Nash are none too hopeful. To a fair representation of last year's regulars who are back may be added a larger aggregation of new men than usual. Yesterday's practice was in the nature of a light workout, no attempt being made to get a line on the players.

OUTDOOR WORK FOR CRIMSON CREW

Cambridge, Mass., March 16.—The Harvard crew began their outdoor work in earnest today with a two-mile row from the Weld boathouse to the Cottage Farm Bridge. The squad was divided today, the first three crews remaining at the Weld boathouse, where they will be in charge of Jim Wray, and the others going to the Weld boathouse in charge of Assistant Coach Brown. Under this system the men will be coached daily. The first varsity is rowing in the same order as last fall. The men average about 178. The second varsity is the same as last year's freshmen crew, with the exception of Carl Wray, who has taken Schall's place. The material for the freshmen eight is not quite up to the standard of former years.

NEW RECORD FOR WOMEN GOLFERS

Pinehurst, N. C., March 16.—Miss Gladys Ravenscroft, of England, today broke the record for women on the No. 2 golf course of the Pinehurst Country Club, making the eighteen holes in seventy-five. The previous record was eighty-five, made last year by Mrs. J. V. Hurd, of Pittsburgh. Miss Ravenscroft, who holds the American women's national championship, soon will sail for her home.

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MILLER SHATTERS BOWLING RECORD

Buffalo, N. Y., March 16.—William Miller, of Detroit, Mich., shattered all high marks in the American Bowling Congress tournament today, taking first place in the singles with a score of 300. Miller, who is a member of the Detroit team, also took the lead in the two-man event, with a score of 1,238. Bowling with H. Halstrom, of Detroit, he won the first round of the four-man event, with a total score of 1,887 for nine games.

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GOOD NEWS

Our buyer has just returned from the largest tire manufacturing centre in the world. We have contracted for our three (3) stores for tires amounting to \$200,000, and by the large purchase are able to save our Virginia patrons, and they are legion, 15 to 30 per cent on their tires and tubes. We can save you double that on other articles. A visit to our greatly enlarged stores will pay you.

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This means that all decay, all breaking down of the tissues, is checked and repair work begins. More attention is being given to scientific medicine than ever before and S. S. S. is a splendid achievement in this line. For many years people relied upon mercury, iodine of potash, arsenic, physics, cathartics and "dope" as remedies for blood sickness, but now the pure, gentle S. S. S. is their safeguard.

You can get S. S. S. in any drug store, but insist upon having it. Take no chance by permitting anyone to recommend a substitute. And if your blood condition is such that you would like to consult a specialist address The Swift Specific Company, 325 Swift Bldg., Atlanta, Ga.

SENATORS PLAY REGULAR CONTEST

Charlottesville, Va., March 16.—Midsummer weather prevailed today and Washington at last got in a full game, the regulars defeating the Yanigans